

Solutions

$\begin{aligned} & \underline{23 \times 3} \times 2 + 5 \times 19 + 10 \times 17 - 9 \\ & \underline{69 \times 2} + 5 \times 19 + 10 \times 17 - 9 \\ & 138 + \underline{5 \times 19} + 10 \times 17 - 9 \\ & 138 + 95 + \underline{10 \times 17} - 9 \\ & \underline{138 + 95} + 170 - 9 \\ & \underline{233 + 170} - 9 \\ & 403 - 9 \\ & \mathbf{394} \end{aligned}$	$\begin{aligned} & 14 + 14 \times (\underline{6 \div 3}) \times 2 + 23 \times 4 + 21 \\ & 14 + \underline{14 \times 2} \times 2 + 23 \times 4 + 21 \\ & 14 + \underline{28 \times 2} + 23 \times 4 + 21 \\ & 14 + 56 + \underline{23 \times 4} + 21 \\ & \underline{14 + 56} + 92 + 21 \\ & \underline{70 + 92} + 21 \\ & 162 + 21 \\ & \mathbf{183} \end{aligned}$
$\begin{aligned} & 12 - 11 + 5 \times (\underline{23 \times 3} \times 14) + (14 \div 7) - 11 \\ & 12 - 11 + 5 \times (\underline{69 \times 14}) + (14 \div 7) - 11 \\ & 12 - 11 + \underline{5 \times 966} + (14 \div 7) - 11 \\ & 12 - 11 + 4830 + (\underline{14 \div 7}) - 11 \\ & \underline{12 - 11} + 4830 + 2 - 11 \\ & \underline{1 + 4830} + 2 - 11 \\ & 4833 - 11 \\ & \mathbf{4822} \end{aligned}$	$\begin{aligned} & 4 \div 2 + 3 - (\underline{7 + 10}) \times 4 \\ & \underline{4 \div 2} + 3 - 17 \times 4 \\ & 2 + 3 - \underline{17 \times 4} \\ & \underline{2 + 3} - 68 \\ & 5 - 68 \\ & \mathbf{-63} \end{aligned}$
$\begin{aligned} & 5 + 23 + 20 + 25 + \underline{17 \times 3} \\ & \underline{5 + 23} + 20 + 25 + 51 \\ & \underline{28 + 20} + 25 + 51 \\ & \underline{48 + 25} + 51 \\ & 73 + 51 \\ & \mathbf{124} \end{aligned}$	$\begin{aligned} & 9 + (\underline{12 \div 3} + 18) + 2 \\ & 9 + (\underline{4 + 18}) + 2 \\ & 9 + 22 + 2 \\ & \mathbf{33} \end{aligned}$
$\begin{aligned} & 5 + 9 \times 18 + 5 \times (\underline{13 - 6}) - 17 \\ & 5 + \underline{9 \times 18} + 5 \times 7 - 17 \\ & 5 + 162 + \underline{5 \times 7} - 17 \\ & \underline{5 + 162} + 35 - 17 \\ & \underline{167 + 35} - 17 \\ & 202 - 17 \\ & \mathbf{185} \end{aligned}$	$\begin{aligned} & 4 \times (\underline{16 \times 21} + 2) + (19 \times 17) \\ & 4 \times (\underline{336 + 2}) + (19 \times 17) \\ & 4 \times 338 + (\underline{19 \times 17}) \\ & \underline{4 \times 338} + 323 \\ & 1352 + 323 \\ & \mathbf{1675} \end{aligned}$
$\begin{aligned} & (\underline{11 + 5}) \times 14 + 19 + 11 + 23 \times 9 \\ & \underline{16 \times 14} + 19 + 11 + 23 \times 9 \\ & 224 + 19 + 11 + \underline{23 \times 9} \\ & \underline{224 + 19} + 11 + 207 \\ & \underline{243 + 11} + 207 \\ & 254 + 207 \\ & \mathbf{461} \end{aligned}$	$\begin{aligned} & (\underline{8 \div 4}) + (18 - 8) + (14 - 12 + 18) - 11 - 10 \\ & 2 + (\underline{18 - 8}) + (14 - 12 + 18) - 11 - 10 \\ & 2 + 10 + (\underline{14 - 12 + 18}) - 11 - 10 \\ & \underline{2 + 10 + 20} - 11 - 10 \\ & \underline{32 - 11} - 10 \\ & 21 - 10 \\ & \mathbf{11} \end{aligned}$

Solutions

$\frac{18 + 2 + 7}{27 + 23} + 23$ 50	$16 \div 2 \times 12 + 8 - 2 - (19 + \frac{6 \times 7}{19 + 42})$ $16 \div 2 \times 12 + 8 - 2 - (19 + 42)$ $\frac{16 \div 2}{8 \times 12} \times 12 + 8 - 2 - 61$ $8 \times 12 + 8 - 2 - 61$ $96 + 8 - 2 - 61$ $\frac{104 - 2}{102} - 61$ $102 - 61$ 41
$(\frac{4 \div 2}{2 + 19}) - 12 + 4 + (6 \div 2) + 9 \times 11$ $(\frac{2 + 19}{21 - 12 + 4 + (6 \div 2)}) + 9 \times 11$ $21 - 12 + 4 + (\frac{6 \div 2}{21 - 12 + 4 + 3 + \frac{9 \times 11}{21 - 12 + 4 + 3 + 99}})$ $21 - 12 + 4 + 3 + \frac{9 \times 11}{9 + 4 + 3 + 99}$ $16 + 99$ 115	$18 \div 3 \times 10 - 14 + 4 \times (\frac{17 \times 21}{18 \div 3 \times 10 - 14 + 4 \times 357 \times 15}) \times 15$ $\frac{18 \div 3}{6 \times 10} \times 10 - 14 + 4 \times 357 \times 15$ $6 \times 10 - 14 + 4 \times 357 \times 15$ $60 - 14 + 4 \times 357 \times 15$ $60 - 14 + \frac{1428 \times 15}{60 - 14 + 21420}$ $46 + 21420$ 21 466
$\frac{12 \div 2}{6 \times 23} \times 2 - 12 + 19$ $\frac{6 \times 23}{138 \times 2} - 12 + 19$ $\frac{276 - 12}{264} + 19$ 283	$\frac{21 \times 12}{252} + 10 + 24 + 14 \times 23 - 8$ $252 + 10 + 24 + \frac{14 \times 23}{252 + 10 + 24 + 322} - 8$ $\frac{262 + 24}{286 + 322} - 8$ $608 - 8$ 600
$\frac{18 \div 2}{9 + 4 \times 6} + 13 + 22 \times 25 + 20$ $9 + \frac{4 \times 6}{9 + 24 + 13 + \frac{22 \times 25}{9 + 24 + 13 + 550}} + 20$ $9 + 24 + 13 + \frac{550}{33 + 13 + 550 + 20}$ $46 + 550 + 20$ $596 + 20$ 616	$6 + (6 + \frac{16 \times 5}{6 + (6 + 80)}) \times 11 \times 2 - (20 \div 4) \times 15$ $6 + (\frac{6 + 80}{6 + 86 \times 11 \times 2 - (20 \div 4) \times 15}) \times 11 \times 2 - 5 \times 15$ $6 + \frac{86 \times 11}{6 + 946 \times 2} - 5 \times 15$ $6 + \frac{1892}{6 + 1892 - \frac{5 \times 15}{1898 - 75}}$ 1823

$12 + (18 \times 4 + 4)$ $12 + (72 + 4)$ $12 + 76$ 88	$24 + (19 \times 10 + 17) - (10 - 9 + 5)$ $24 + (190 + 17) - (10 - 9 + 5)$ $24 + 207 - (10 - 9 + 5)$ $24 + 207 - (1 + 5)$ $24 + 207 - 6$ $231 - 6$ 225
$19 - 13 + (10 \times 5) \times (6 \div 3) \times 7$ $19 - 13 + 50 \times (6 \div 3) \times 7$ $19 - 13 + 50 \times 2 \times 7$ $19 - 13 + 100 \times 7$ $19 - 13 + 700$ $6 + 700$ 706	$17 \times (20 - 12) + 17 \times 8$ $17 \times 8 + 17 \times 8$ $136 + 17 \times 8$ $136 + 136$ 272